



State of North Carolina
Department of Environment, Health and Natural Resources
Winston-Salem Regional Office

James G. Martin, Governor
William W. Cobey, Jr., Secretary

Margaret Plemmons Foster
Regional Manager

DIVISION OF ENVIRONMENTAL MANAGEMENT
GROUNDWATER SECTION

December 3, 1991

Mike Antonowicz
Burlington Industries
P.O. Box 21207
Greensboro, NC 21207

Subject: Conventional Rate Soils Landfarming
Permit No. SR0400015
Burlington Industries
Burlington Terminal, Tucker St. Extension, Burlington
Alamance County

Dear Mr. Antonowicz:

In accordance with your application received November 1, 1991, we are forwarding herewith Permit No. SR0400015, dated December 3, 1991, to Burlington Industries for the operation of the subject Soils Landfarming program.

This permit shall be effective from the date of issuance until June 3, 1993, and shall be subject to the conditions and limitations as specified therein.

If any parts, requirements, or limitations contained in this permit are unacceptable to you, you have the right to request an adjudicatory hearing upon written request within 30 days following receipt of this permit. This request must be in the form of a written petition, conforming to Chapter 150B of North Carolina General Statutes, and filed with the Office of Administrative Hearings, P.O. Drawer 27447, Raleigh, North Carolina 27611-7447. Unless such demands are made this permit shall be final and binding.

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One set of approved plans and specifications is being forwarded to you. If you need additional information concerning this matter, please contact Christopher F. Greene at (919) 896-7007.

Sincerely,

Larry D. Coble

Larry D. Coble
Regional Supervisor

cc: Alamance County Health Dept.
Winston-Salem Regional Office
Groundwater Section Permits Group
ENSCI Corporation

NORTH CAROLINA
ENVIRONMENTAL MANAGEMENT COMMISSION
DEPARTMENT OF ENVIRONMENT, HEALTH AND NATURAL RESOURCES
RALEIGH

CONVENTIONAL RATE SOILS LANDFARMING PERMIT

In accordance with the provisions of Article 21 of Chapter 143, General Statutes of North Carolina as amended, and other applicable Laws, Rules, and Regulations

PERMIT No. SR0400015 IS HEREBY GRANTED TO

Burlington Industries

Alamance County

FOR THE

landfarming of approximately 3600 cubic yards of soil, containing fuel and motor oils, attaining a maximum TPH of 130 PPM from Burlington Industries in Alamance County onto a 9.0 acre disposal area located at Burlington Terminal, Tucker St. Extension, Burlington in Alamance County with no discharge of wastes to the surface waters. This permit is issued pursuant to the application received November 1, 1991, and in conformity with the project plan, specifications, and other supporting data filed with and approved by the Department of Environment, Health and Natural Resources and considered a part of this permit.

This permit shall be effective from the date of issuance until June 3, 1993, and shall be subject to the following specified conditions and limitations:

I. PERFORMANCE STANDARDS

1. The Winston-Salem Regional Office, phone no. (919) 896-7007, shall be notified at least forty-eight (48) hours before land application of the contaminated soils. To allow for a site inspection, application shall be initiated, and the Regional Supervisor shall be notified, during the normal working hours of 8:00 a.m. until 5:00 p.m. Monday through Friday, excluding State holidays (unless another time has been arranged with the Regional Supervisor).

2. In the event that the facilities fail to perform satisfactorily, including the creation of nuisance conditions, the Permittee shall take immediate corrective action, including those as may be required by the Division of Environmental Management (hereinafter Division), such as the operation of additional or replacement treatment or disposal facilities.
3. The issuance of this permit shall not relieve the Permittee of the responsibility for damages to surface waters or groundwaters resulting from the operation of this facility.
4. The following minimum buffers shall be maintained:
 - a) 100 feet between disposal area and any public or private water supply, including wells.
 - b) 100 feet between disposal area and "SA" and "SB" classified surface waters.
 - c) 100 feet between disposal area and any stream, lake, river or natural drainageway.
 - d) 50 feet between disposal area and property lines.
 - e) 10 feet between disposal area and surface water interceptor drains or diversions (upslope).
 - f) 25 feet between disposal area and surface water interceptor drains or diversions (downslope) and groundwater drainage systems.
 - g) 100 feet from any habitable residence or place of public assembly under separate ownership.
5. No food for direct human consumption shall be grown on the land-farming site for at least 12 months following the Division-approved completion of contaminated soil disposal.
6. No soils contaminated with heavy fuel oils (#4, #5 or #6) or new or used motor oils, shall be applied to sites where food-chain crops are growing, or will be grown, during the term of the permit.
7. No soils containing petroleum products, other than as specified in the permit application, shall be placed on the treatment and disposal site without permission from the Winston-Salem Regional Supervisor.

8. This permit may be rescinded upon a determination by the Division that the contaminated soils have been remediated to a level of Total Petroleum Hydrocarbons (TPH) of ten (10) parts per million (ppm) or less.

II. OPERATION AND MAINTENANCE REQUIREMENTS

1. The facilities shall be properly maintained and operated at all times.
2. Adequate measures shall be taken to prevent surface runoff from carrying any disposed material into any surface waters.
3. All foreign debris shall be removed from the contaminated soil prior to land application, and at no time shall foreign debris be land applied to the approved site(s) during the life of this permit.
4. The 3600 cubic yards of contaminated soil shall be spread to a thickness not to exceed 3 inches on at least 9.0 acre(s) of land at the disposal site.
5. The site shall be adequately limed to a soil pH of at least (6.0 for class I, 6.5 for class II) prior to disposal of the contaminated soil. The contaminated soil and lime shall be thoroughly incorporated into the top six to eight inches of the native soils, by tilling or disking, within twenty-four (24) hours of disposal.
6. To ensure that sufficient oxygen is provided for waste biodegradation, the site shall be retilled at periods of one month, two months, and six months following disposal.
7. A vegetative cover, as indicated in the permit application, shall be established and maintained at all sites.
8. Nutrients, in the form of nitrogen and phosphorus fertilizers, must be applied over the disposal area and fully incorporated into the mixed contaminated and native soil layer. To provide maximum benefits, fertilization should occur no sooner than 15 days, nor later than 30 days, after disposal.

The rate of fertilizer application should be the lesser of the following:

- a) for nitrogen, the tolerance level of the vegetative crop, as determined by a knowledgeable party, or 75-100 pounds per acre plant available nitrogen (PAN).
- b) for phosphorus, the tolerance level of the vegetative crop, as determined by a knowledgeable party, or 50-75 pounds per acre P_2O_5 (or equivalent).

III. MONITORING AND REPORTING REQUIREMENTS

- 1. Any monitoring deemed necessary by the Division, to ensure surface water and groundwater protection, will be established and an acceptable sampling and reporting schedule shall be followed.
- 2. **Noncompliance Notification:**

The permittee shall report by telephone to the Winston-Salem Regional Office, telephone no. (919) 896-7007, as soon as possible, but in no case more than 24 hours or on the next working day following the occurrence, or first knowledge of the occurrence, of any of the following:

- a) the landfarming or otherwise disposing of significant amounts of wastes which is not in accordance with the terms and conditions of this permit.
- b) any failure of the land application program resulting in a discharge of wastes to the groundwaters or surface waters of the State in contravention of assigned quality standards.
- c) any spillage or discharge from a vehicle or piping system transporting contaminated soil to the application site.

Persons reporting such occurrences by telephone shall also file a written report in letter form within 15 days following first knowledge of the occurrence. This report must outline the actions taken or proposed to be taken to ensure that the problem does not recur.

3. Soil samples shall be collected at a minimum of (at least 2/ac) areas at the disposal site every six (6) months following disposal or until the permittee can demonstrate that the level of Total Petroleum Fuel Hydrocarbons (TPFH,) in the soil mixture zone, is less than 10 parts per million (ppm). The laboratory methods must be those specified in Guidelines For Remediation of Soil Contaminated by Petroleum.

Each sample will be composed of the vertical column of soil, extending from land surfaces to the maximum depth of waste incorporation, and collected by using a soil auger, Shelby tube, split-spoon sampler or other methods approved by the Division.

Samples at each location will be thoroughly mixed and a representative portion analyzed (by methods specified by the Division) to determine the concentration of (1) Total Petroleum Fuel Hydrocarbons, and (2) any Volatile Organic Aromatic (VOA) compounds present.

A copy of the laboratory results of the soil analysis shall be submitted to the Winston-Salem Regional Office, to the attention of the Regional Hydrogeological Supervisor, within 30 days of sample collection or another time frame approved by the Winston-Salem Regional Supervisor.

IV. INSPECTIONS

1. Adequate inspection and maintenance of the subject facility(ies) shall be provided by the Permittee to insure compliance with applicable state, federal or local laws and regulations.
2. Any duly authorized officer, employee, or representative of the Division of Environmental Management may, upon presentation of credentials, enter and inspect any property, premises or place on or related to the disposal site and facility at any reasonable time for the purpose of determining compliance with this permit; may inspect or copy any records that must be kept under the terms and conditions of this permit; or may obtain samples of groundwater, surface water, or leachate.

V. GENERAL CONDITIONS

1. This permit is effective only with respect to the nature and volume of wastes described in the application and other supporting information.
2. This permit is not transferable. In the event there is a desire for the facilities to change ownership, or there is a name change of the Permittee, a formal permit request must be submitted to the Division of Environmental Management accompanied by an application fee, documentation from the parties involved, and other supporting materials as may be appropriate. The approval of this request will be considered on its merits and may or may not be approved.
3. In any future transfer of this land, a notice shall be given to the new owner that gives full details of the materials applied or incorporated at this site.
4. A set of approved documents for the subject project must be retained by the applicant for the life of the project.
5. Failure to abide by the conditions and limitations contained in this permit may subject the Permittee to an enforcement action by the Division of Environmental Management in accordance with North Carolina General Statute 143-215.6.
6. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances which may be imposed by other government agencies (local, state, or federal) which have jurisdiction.

Permit issued this the 3rd day of December 1991.

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

Larry D. Coble

Regional Supervisor, Winston-Salem Regional Office
Division of Environmental Management
By Authority of the Environmental Management Commission

Permit No. SR0400015